

1 **ABSTRACT**

2 Briefly and not exclusively, systems, methods, and articles are described for  
3 lowering the gain of the first bands of an equalizer. The gain of the first bands of  
4 the equalizer are lowered in response to a user adjusted raised gain in the second  
5 band of the equalizer. The system includes a gain calculator to determine the  
6 lowered first band gains. In one implementation, the gain calculator is configured  
7 to determine the lowered first band gains so that the overall power represented by  
8 the equalizer audio output signal does not increased. In one implementation, the  
9 gain calculator is configured to determine the lowered first band gains so that the  
10 overall volume represented by the equalizer audio output signal increases a  
11 fraction of the increased volume caused by the raised second band gain.

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